Name: Date:

## FOIL when $A \neq 1$ solution (version 6)

## FOIL the expressions shown below:

1. (7x+6)(-5x+3)

$$(7)(-5)x^{2} + (7)(3)x + (6)(-5)x + (6)(3)$$
$$(-35)x^{2} + (21)x + (-30)x + (18)$$
$$-35x^{2} - 9x + 18$$

2. (3x+7)(-8x-8)

$$(3)(-8)x^{2} + (3)(-8)x + (7)(-8)x + (7)(-8)$$
$$(-24)x^{2} + (-24)x + (-56)x + (-56)$$
$$-24x^{2} - 80x - 56$$

3. (-9x-4)(8x-9)

$$(-9)(8)x^{2} + (-9)(-9)x + (-4)(8)x + (-4)(-9)$$
$$(-72)x^{2} + (81)x + (-32)x + (36)$$
$$-72x^{2} + 49x + 36$$

4. (9x-8)(9x-6)

$$(9)(9)x^{2} + (9)(-6)x + (-8)(9)x + (-8)(-6)$$
$$(81)x^{2} + (-54)x + (-72)x + (48)$$
$$81x^{2} - 126x + 48$$

5. (5x+3)(6x+7)

$$(5)(6)x^{2} + (5)(7)x + (3)(6)x + (3)(7)$$
$$(30)x^{2} + (35)x + (18)x + (21)$$
$$30x^{2} + 53x + 21$$

## FOIL the expressions shown below:

6. 
$$(-9x+6)(-7x+7)$$

$$(-9)(-7)x^{2} + (-9)(7)x + (6)(-7)x + (6)(7)$$
$$(63)x^{2} + (-63)x + (-42)x + (42)$$
$$63x^{2} - 105x + 42$$

7. 
$$(8x+7)(6x+7)$$

$$(8)(6)x^{2} + (8)(7)x + (7)(6)x + (7)(7)$$
$$(48)x^{2} + (56)x + (42)x + (49)$$
$$48x^{2} + 98x + 49$$

8. 
$$(-8x+5)(9x-8)$$

$$(-8)(9)x^{2} + (-8)(-8)x + (5)(9)x + (5)(-8)$$
$$(-72)x^{2} + (64)x + (45)x + (-40)$$
$$-72x^{2} + 109x - 40$$

9. 
$$(-3x+3)(8x-6)$$

$$(-3)(8)x^{2} + (-3)(-6)x + (3)(8)x + (3)(-6)$$
$$(-24)x^{2} + (18)x + (24)x + (-18)$$
$$-24x^{2} + 42x - 18$$

10. 
$$(6x+9)(-4x+9)$$

$$(6)(-4)x^{2} + (6)(9)x + (9)(-4)x + (9)(9)$$
$$(-24)x^{2} + (54)x + (-36)x + (81)$$
$$-24x^{2} + 18x + 81$$